

	L #	Hits	Search Text	DBs
1	L1	0	"20020193027"	DERWENT
2	L2	1	5773146.pn.	DERWENT
3	FAMILY	1	1997-043014.NRAN.	DERWENT
4	L4	1	20020058140.pn.	DERWENT
5	FAMILY	1	2002-471214.NRAN.	DERWENT
6	L6	1	2002193027.pn.	DERWENT
7	L7	0	20020193027.pn.	DERWENT
8	L8	2	2001068755.pn.	DERWENT
9	L9	0	WO0001068755.PN.	DERWENT
10	L10	0	WO0001068755	DERWENT
11	L11	0	WO2001068755	DERWENT
12	L12	2	"2001068755"	DERWENT
13	L13	11617	powder\$2 adj coat\$4	USPAT; US-PGPUB
14	L16	70037	glass adj (fiber fibre filament strand yarn)	USPAT; US-PGPUB
15	L19	1097	13 and 16	USPAT; US-PGPUB
16	L22	16526	(organic inorganic composite hollow thermoplastic graphite talc mica zinc coppeer kaolinite) adj (particle particulate)	USPAT; US-PGPUB
17	L25	111	19 and 22	USPAT; US-PGPUB

DERWENT-ACC-NO: 1997-043014  
DERWENT-WEEK: 200275  
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TITLE: Aq. forming size compsn. for glass  
fibres - includes oleophobic starch,  
N-vinyl! amide! polymer, ester of wax  
component, emulsifying agent and cationic  
lubricant

INVENTOR: LAWTON, E L; WU, X ; WOO, S A

PATENT-ASSIGNEE: PPG IND INC[PITT], PPG  
IND OHIO INC[PITT]

PRIORITY-DATA: 1995US-0463909 (June 5, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE
LANGUAGE	PAGES MAIN-IPC
CN 1191523 A	August 26, 1998
N/A	000 C03C 025/02
WO 9639364 A1	December 12, 1996
E	045 C03C 025/02
US 5773146 A	June 30, 1998
N/A	000 B32B 009/00
JP 10510800 W	October 20, 1998
N/A	040 C03C 025/02
KR 99022426 A	March 25, 1999
N/A	000 C03C 025/02
JP 3065668 B2	July 17, 2000
N/A	017 C03C 025/10
KR 245067 B1	February 15, 2000

N/A

000

C03C 025/02

DESIGNATED-STATES: CA CN JP KR AT BE CH DE  
DK ES FI FR GB GR IE IT LU MC NL PT S  
E

CITED-DOCUMENTS: EP 424701; US 4296173 ; WO  
9404731 ; WO 9425522

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR
APPL-NO	APPL-DATE
CN 1191523A	N/A
1996CN-0195721	May 30, 1996
WO 9639364A1	N/A
1996WO-US08071	May 30, 1996
US 5773146A	N/A
1995US-0463909	June 5, 1995
JP 10510800W	N/A
1996WO-US08071	May 30, 1996
JP 10510800W	N/A
1997JP-0500862	May 30, 1996
JP 10510800W	Based on
WO 9639364	N/A
KR 99022426A	N/A
1996WO-US08071	May 30, 1996
KR 99022426A	N/A
1997KR-0708906	December 5, 1997
KR 99022426A	Based on
WO 9639364	N/A
JP 3065668B2	N/A
1996WO-US08071	May 30, 1996
JP 3065668B2	N/A
1997JP-0500862	May 30, 1996
JP 3065668B2	Previous Publ.

JP 10510800	N/A
JP 3065668B2	Based on
WO 9639364	N/A
KR 245067B1	N/A
1996WO-US08071	May 30, 1996
KR 245067B1	N/A
1997KR-0708906	December 5, 1997

INT-CL (IPC): B32B009/00; C03C025/02 ;  
C03C025/10 ; D03D015/12 ;  
D06M015/11 ; D06M015/356

ABSTRACTED-PUB-NO: US 5773146A  
BASIC-ABSTRACT: An aq. forming size compsn.  
for treating glass fibres comprises  
(a) an oleophobic starch; (b) a film-forming  
material which is a N-vinylamide  
polymer; (c) a wax component comprising an  
ester formed by reacting (1) a  
monocarboxylic acid and (2) a monohydric  
alcohol; (d) an emulsifying agent for  
the wax component; and (e) a cationic  
lubricant different from the wax  
component; the compsn. is free of (1)  
oleophilic starches, (2) polyolefin  
emulsions, and (3) preservatives selected  
from organometallic cpds.,  
formaldehydes and their derivs.

Also claimed are (i) a fibre strand  
comprising fibres deposited with the dried  
residue of the above aq. forming size  
compsn.; and (ii) a woven fabric having  
at least one of the warp and the weft  
comprising the above fibre strand.

USES - The glass fibre strands are used as cloth for printed circuit boards, knits for orthopaedics and overwrap reinforcements for optical fibre cables.

ADVANTAGES - The sized glass fibre strands have minimum fuzz and halos, low broken filaments, low strand tension, adequate wet-out in slashing and high fliability, low insertion time in weaving and can withstand a wide variety of processing operations.

ABSTRACTED-PUB-NO: WO 9639364A

EQUIVALENT-ABSTRACTS: An aq. forming size compsn. for treating glass fibres comprises (a) an oleophobic starch; (b) a film-forming material which is a N-vinylamide polymer; (c) a wax component comprising an ester formed by reacting (1) a monocarboxylic acid and (2) a monohydric alcohol; (d) an emulsifying agent for the wax component; and (e) a cationic lubricant different from the wax component; the compsn. is free of (1) oleophilic starches, (2) polyolefin emulsions, and (3) preservatives selected from organometallic cpds., formaldehydes and their derivs.

Also claimed are (i) a fibre strand comprising fibres deposited with the dried residue of the above aq. forming size compsn.; and (ii) a woven fabric having at least one of the warp and the weft comprising the above fibre strand.

USES - The glass fibre strands are used as cloth for printed circuit boards, knits for orthopaedics and overwrap reinforcements for optical fibre cables.

ADVANTAGES - The sized glass fibre strands have minimum fuzz and halos, low broken filaments, low strand tension, adequate wet-out in slashing and high fliability, low insertion time in weaving and can withstand a wide variety of processing operations.

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS:

AQUEOUS FORMING SIZE COMPOSITION GLASS FIBRE  
OLEOPHOBIC STARCH N POLYVINYL  
POLYAMIDE POLYMER ESTER WAX COMPONENT  
EMULSION AGENT CATION LUBRICATE

DERWENT-CLASS: A11 A14 A85 A87 D22 F03 F06  
L01 L03 P73

CPI-CODES: A03-A; A04-D; A04-G01E; A07-B03;  
A08-M03; A08-S05; A12-G; D09-C04B;  
F01-D09B; F02-B02; F03-C; F03-D; F04-E04;  
F04-G01; L01-F03A; L03-H04E;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; R01863\*R D01 D11 D10 D23 D22 D31  
D42 D50 D76 D86 F24 F29 F26  
F34 H0293 P0599 G3623 ; S9999 S1025  
S1014 ; M9999 M2073

Polymer Index [1.2]  
     018 ; ND01 ; Q9999 Q7216 Q7114 ; K9676\*R  
 ; K9530 K9483 ; Q9999 Q7454  
     Q7330 ; Q9999 Q8344 Q8264 ; Q9999  
 Q7987\*R  
 Polymer Index [1.3]  
     018 ; B9999 B3496 B3485 B3372 ; B9999  
 B3554\*R  
 Polymer Index [1.4]  
     018 ; D01 F83 ; A999 A033  
 Polymer Index [1.5]  
     018 ; D01 D11 D10 D50 D63 D95 F89 F41 ;  
 A999 A340\*R  
 Polymer Index [1.6]  
     018 ; D01 D61\*R F16 F35\*R ; D01 D23 D22  
 D31 D75 D50 F09 F07 D11  
     D10 ; A999 A340\*R ; K9643 K9621  
 Polymer Index [1.7]  
     018 ; A999 A340\*R ; K9325  
 Polymer Index [1.8]  
     018 ; A999 A635 A624 A566  
 Polymer Index [2.1]  
     018 ; G0635 G0022 D01 D12 D10 D23 D22  
 D31 D41 D51 D53 D58 D75 D86  
     F71 ; H0000 ; H0011\*R  
 Polymer Index [2.2]  
     018 ; G0806 G0022 D01 D51 D53 D12 D10  
 D23 D22 D31 D76 D41 D58 D87  
     F71 ; H0000 ; H0011\*R  
 Polymer Index [2.3]  
     018 ; G0657 G0022 D01 D12 D10 D23 D22  
 D31 D41 D51 D53 D58 D77 D88  
     F71 ; H0000 ; H0011\*R  
 Polymer Index [2.4]  
     018 ; G0806 G0022 D01 D51 D53 D11 D10  
 D12 D23 D22 D31 D75 D41 D58